

## **CLAIMS**

- 1 Process for transmitting data between a first data transmission device (1) connected to a first network (2) for transmission by packets, of the cellular telephone type, and a second transmission device (7) connected to a second network (6) for transmission of data by packets, of the INTERNET type, each packet of one and the other of the networks (2, 6) comprising a field of useful data (16, 18) and a signalling field (17, 19), the process being characterised in that the two networks (2, 6) being connected by a gateway (3, 4, 5) for data adaptation and for controlling routing on the two networks (2, 6), the two packet fields (18, 19) of the second network (6) are transported on the first network (2) respectively into the two counterpart packet fields (16, 17) of the first network (2)

2 Process according to claim 1, wherein code words representing signalling of the second network (6) are added to the signalling of the packets of the first network (2).

3 Process according to one of claims 1 and 2, wherein in order to transport the signalling (19) of the packets of the second network (6) into those of the first network (2), code words of this latter network, which have no use in connections between two such networks (2, 6), are reused.

4 Process according to one of claims 1 to 3, wherein the data are transmitted between a first, GSM network (2) and a second, INTERNET network (6), by accommodating INTERNET addresses in the signalling field of SMS packets.

5 Process according to one of claims 1 to 4, wherein at the gateway (4), the two packet fields of the second network (18, 19) are extracted from the packets coming from the first network (2) before the two packet fields of the second network are sent on the second network (6) in the form of a packet (20) of the second network (6).